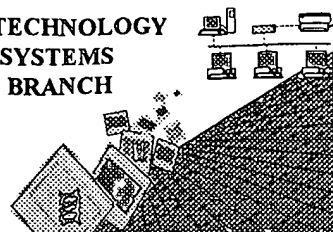


BIOTECHNOLOGY
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RAW SEQUENCE LISTING
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Revised 01/29/2002



PCT10

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PATENT APPLICATION: US/10/048,146

DATE: 02/13/2002
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Input Set : A:\EP.txt
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**Does Not Comply
Corrected Diskette Needed**

3 <110> APPLICANT: The Government of the United States of America as represented by the
4 Secretary of the Department of Health and Human Services, Centers for Disease
5 Control and Prevention
6 Tsang, Victor
7 Greene, Ryan
8 Wilkins, Patricia
9 Hancock, Kathy
11 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING LARVAL TAENIA SOLIUM
13 <130> FILE REFERENCE: 6395-62068
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/048,146
C--> 15 <141> CURRENT FILING DATE: 2002-01-25
15 <150> PRIOR APPLICATION NUMBER: US 60/147,318
16 <151> PRIOR FILING DATE: 1999-08-03
18 <150> PRIOR APPLICATION NUMBER: PCT/US00/21173
19 <151> PRIOR FILING DATE: 2000-08-03
21 <160> NUMBER OF SEQ ID NOS: 9
23 <170> SOFTWARE: PatentIn version 3.1
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26 <211> LENGTH: 2153
27 <212> TYPE: DNA
28 <213> ORGANISM: Taenia solium
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31 <221> NAME/KEY: CDS
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33 <223> OTHER INFORMATION:
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41 acttgtaact gaacaacctg taga atg cgt gcc tac att gtg ctt ctc gct 171
42 Met Arg Ala Tyr Ile Val Leu Leu Ala
43 1 5
45 ctc act gtt ttc gta gtg acg gtg tcg gcc gag tgg gtg ccc att tcg 219
46 Leu Thr Val Phe Val Val Thr Val Ser Ala Glu Trp Val Pro Ile Ser
47 10 15 20 25
49 agt gtc cac ata gcc tca tgc aaa agc cac tac atg ttc caa tta aaa 267
50 Ser Val His Ile Ala Ser Cys Lys Ser His Tyr Met Phe Gln Leu Lys
51 30 35 40
53 cgc ttt ttt gcc ttt agg aaa aac aaa ccg aaa gat gtt gca aat agt 315
54 Arg Phe Phe Ala Phe Arg Lys Asn Lys Pro Lys Asp Val Ala Asn Ser
55 45 50 55
57 acg aaa aaa ggg ata gaa tat gtc cac gaa ttc ttc cac gaa gac ccg 363
58 Thr Lys Lys Gly Ile Glu Tyr Val His Glu Phe Phe His Glu Asp Pro
59 60 65 70

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63      75      80      85
65 ttg gaa ggt agg ttt tgg tgt ttt ctg tca gaa gaa aat tat cta ttc      459
66 Leu Glu Gly Arg Phe Trp Cys Phe Leu Ser Glu Glu Asn Tyr Leu Phe
67 90      95      100      105
69 att cat cta gac aaa ggc aaa ata cgg acg tca ctg gtt gag cac tgc      507
70 Ile His Leu Asp Lys Gly Lys Ile Arg Thr Ser Leu Val Glu His Cys
71      110      115      120
73 aaa ggt cct aag aaa aaa act gct taacttgta actttcatgc gttcttctct      561
74 Lys Gly Pro Lys Lys Lys Thr Ala
75      125
77 tcactaataa atgctcatta ataagaaagc tgcccttttgc aagatcaacg agggccatag      621
79 actgtgaggg ttatagccta aggttatggg gtgaaatgag ataggaattg agcatttgag      681
81 aagttactaa tttaaattga aagccgcatt tcttctgcaa ttgacgtgtg atggttagcg      741
83 aaaccaagtg aagcacgacc tcttgagtcg ttccaacagc cgccagtggg ttcaccagtg      801
85 gcttcaccag tgggtagact ggtttgtcac acatgcgagg tacggtcaga gggctaacag      861
87 gtgtggtgga ggggccaaca cgtgtaagac aagcagttcc ccttctctgt cgtgaggcac      921
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91 gccccgcaca agttgaaggc actgatgaca tttgtaccat atcaccgata agtattaact      1041
93 ctccacttcc ccagattttg aggtcaggcg atcctactga ctcggtgtag ccccatgggtg      1101
95 gtccatgctc tgcaccattc gctgttcagt ggagcatcca cctagacggc caaccaatct      1161
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103 gcaagtcagc gcaatagctt cagccatgct gactaaaatg tgtaaggagc cagtagctct      1401
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107 agcatgggccc atgaatatgg ccttctgagt cttccttgaa tgcaaacgaa ggcatagcac      1521
109 gagggtagga tgagtgtaca gaaaacagcg aggcaacgaa tctactggca tggccctgat      1581
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113 gaacaaacaa agtattacat agccacactc ttcttttgag cgtcgtcctc gacgctcctt      1701
115 tcgacacacc tccgcgcatca gccaccacaa agtaatcagt actggggaga caccacgag      1761
117 ctaaccgtgc cagtcatgga aaatttgacg gcaactgagg agatgcctga ccccttttgg      1821
119 cagttcgaat gctgcccgtg gtcaaaactc tgcacgagcc atcacctacg attcaaacat      1881
121 cctagtcgcc aaattttcgt gaacctcta aaattttcgt gcactctcaa gacacttcca      1941
123 actgacttag agctttttca tttggtgaga acacgtaaaa gcttcaagta aacaacaggc      2001
125 aacgatttca ctttgatgct ctccaccatca attctcttgt atgtgccacc accttaaacc      2061
127 ctccctgacc acttccactc tctctctctc cctaaataac aacacttgga agcatgaatg      2121
129 gtgtctgtca aagttacacc cctagactgc ag      2153
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133 <211> LENGTH: 129
134 <212> TYPE: PRT
135 <213> ORGANISM: Taenia solium
137 <400> SEQUENCE: 2
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140 1      5      10      15
143 Val Ser Ala Glu Trp Val Pro Ile Ser Ser Val His Ile Ala Ser Cys
144      20      25      30
147 Lys Ser His Tyr Met Phe Gln Leu Lys Arg Phe Phe Ala Phe Arg Lys

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148          35          40          45
151 Asn Lys Pro Lys Asp Val Ala Asn Ser Thr Lys Lys Gly Ile Glu Tyr
152          50          55          60
155 Val His Glu Phe Phe His Glu Asp Pro Ile Gly Lys Gln Ile Ala Gln
156 65          70          75          80
159 Leu Ala Lys Glu Trp Lys Glu Ala Met Leu Glu Gly Arg Phe Trp Cys
160          85          90          95
163 Phe Leu Ser Glu Glu Asn Tyr Leu Phe Ile His Leu Asp Lys Gly Lys
164          100          105          110
167 Ile Arg Thr Ser Leu Val Glu His Cys Lys Gly Pro Lys Lys Lys Thr
168          115          120          125
171 Ala
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177 <212> TYPE: DNA
178 <213> ORGANISM: Taenia solium
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182 <222> LOCATION: (3)..(224)
183 <223> OTHER INFORMATION:
186 <400> SEQUENCE: 3
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188   Phe Val Val Ala Val Ser Ala Glu Lys Asn Lys Pro Lys Cys Asp
189   1          5          10          15
191 gca aat agt act aag aaa gag ata gaa tat atc cac aat tgg ttt ttc      95
192 Ala Asn Ser Thr Lys Lys Glu Ile Glu Tyr Ile His Asn Trp Phe Phe
193          20          25          30
195 cat gat gac ccg att gga aaa caa att gct caa ctc gca aag gac tgg      143
196 His Asp Asp Pro Ile Gly Lys Gln Ile Ala Gln Leu Ala Lys Asp Trp
197          35          40          45
199 aat gaa aca gtg cag gaa gcc aaa ggc aaa ttt tgg gcg tca ctg gct      191
200 Asn Glu Thr Val Gln Glu Ala Lys Gly Lys Phe Trp Ala Ser Leu Ala
201          50          55          60
203 gag tac tgc aga ggt ctg aag aac aaa act gct taacttgtca actttcatgc      244
204 Glu Tyr Cys Arg Gly Leu Lys Asn Lys Thr Ala
205          65          70
207 gttcttctct tcaccaataa atgctgatta acaagaaaaa aaaaaaaaaa aaaa      298
210 <210> SEQ ID NO: 4
211 <211> LENGTH: 74
212 <212> TYPE: PRT
213 <213> ORGANISM: Taenia solium
215 <400> SEQUENCE: 4
217 Phe Val Val Ala Val Ser Ala Glu Lys Asn Lys Pro Lys Cys Asp Ala
218 1          5          10          15
221 Asn Ser Thr Lys Lys Glu Ile Glu Tyr Ile His Asn Trp Phe Phe His
222          20          25          30
225 Asp Asp Pro Ile Gly Lys Gln Ile Ala Gln Leu Ala Lys Asp Trp Asn
226          35          40          45
229 Glu Thr Val Gln Glu Ala Lys Gly Lys Phe Trp Ala Ser Leu Ala Glu

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230      50      55      60
233 Tyr Cys Arg Gly Leu Lys Asn Lys Thr Ala
234 65      70
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238 <211> LENGTH: 294
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250 Phe Val Val Ala Val Ser Ala Glu Glu Thr Lys Pro Glu Asp Val
251 1      5      10      15
253 gta aag aat att aag aaa ggg atg gaa gtt gtc tac aaa ttt ttc tac      95
254 Val Lys Asn Ile Lys Lys Gly Met Glu Val Val Tyr Lys Phe Phe Tyr
255      20      25      30
257 gaa gac ccg ttg gga aag aaa ata gct caa ctc gca aag gac tgg aag      143
258 Glu Asp Pro Leu Gly Lys Lys Ile Ala Gln Leu Ala Lys Asp Trp Lys
259      35      40      45
261 gaa gca atg ttg gaa gcc aga agc aaa gtg cgg gcg tca ctg gct gag      191
262 Glu Ala Met Leu Glu Ala Arg Ser Lys Val Arg Ala Ser Leu Ala Glu
263      50      55      60
265 tac atc aga ggt ctc aag aac gaa gct gct taacttgtca actttcatgc      241
266 Tyr Ile Arg Gly Leu Lys Asn Glu Ala Ala
267      65      70
269 gttcttctct tcactaataa atgctcatta ataagaaaaa aaaaaaaaaa aaa      294
272 <210> SEQ ID NO: 6
273 <211> LENGTH: 73
274 <212> TYPE: PRT
275 <213> ORGANISM: Taenia solium
277 <400> SEQUENCE: 6
279 Phe Val Val Ala Val Ser Ala Glu Glu Thr Lys Pro Glu Asp Val Val
280 1      5      10      15
283 Lys Asn Ile Lys Lys Gly Met Glu Val Val Tyr Lys Phe Phe Tyr Glu
284      20      25      30
287 Asp Pro Leu Gly Lys Lys Ile Ala Gln Leu Ala Lys Asp Trp Lys Glu
288      35      40      45
291 Ala Met Leu Glu Ala Arg Ser Lys Val Arg Ala Ser Leu Ala Glu Tyr
292      50      55      60
295 Ile Arg Gly Leu Lys Asn Glu Ala Ala
296 65      70
299 <210> SEQ ID NO: 7
300 <211> LENGTH: 6
301 <212> TYPE: PRT
302 <213> ORGANISM: Taenia solium
304 <400> SEQUENCE: 7
306 Ile Ala Gln Leu Ala Lys

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307 1 5
310 <210> SEQ ID NO: 8
311 <211> LENGTH: 24
312 <212> TYPE: PRT
313 <213> ORGANISM: Taenia solium
315 <220> FEATURE:
316 <221> NAME/KEY: variant
317 <222> LOCATION: (7)..(8)
318 <223> OTHER INFORMATION: Amino acid at position 7 may also be valine
321 <220> FEATURE:
322 <221> NAME/KEY: site
323 <222> LOCATION: (21)..(22)
324 <223> OTHER INFORMATION: Asparagine at position 21 is an amino acid insertion
327 <220> FEATURE:
328 <221> NAME/KEY: variant
329 <222> LOCATION: (14)..(15)
330 <223> OTHER INFORMATION: Amino acid at position 14 may also be glycine
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334 <221> NAME/KEY: variant
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336 <223> OTHER INFORMATION: Amino acid at position 18 may also be valine
339 <220> FEATURE:
340 <221> NAME/KEY: variant
341 <222> LOCATION: (19)..(20)
342 <223> OTHER INFORMATION: Amino acid at position 19 may also be histidine
345 <220> FEATURE:
346 <221> NAME/KEY: variant
347 <222> LOCATION: (20)..(21)
348 <223> OTHER INFORMATION: Amino acid at position 20 may also be arginine
351 <400> SEQUENCE: 8
353 Lys Asn Lys Pro Lys Asp Asp Ala Ala Ser Thr Lys Lys Glu Ile Glu
354 1 5 10 15
357 Tyr Ile Trp His Asn Phe Phe Phe
358 20
361 <210> SEQ ID NO: 9
362 <211> LENGTH: 13
363 <212> TYPE: PRT
364 <213> ORGANISM: Taenia solium
366 <220> FEATURE:
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368 <222> LOCATION: (5)..(6)
369 <223> OTHER INFORMATION: Amino acid at position 5 may also be isoleucine
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373 <221> NAME/KEY: variant
374 <222> LOCATION: (12)..(13)
375 <223> OTHER INFORMATION: Amino acid at position 12 may also be aspartic acid
378 <220> FEATURE:
379 <221> NAME/KEY: variant
380 <222> LOCATION: (7)..(9)

"ASP can only represent itself. Use Xaa, instead, and explain in (223)-(225) section"

use Xaa

Xaa

Xaa

Xaa

Xaa

Xaa

Please correct any subsequent variants

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/048,146

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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date